
2017

Ontario Winter Wheat Performance Trials

Data collected 2013-2017

www.gocereals.ca



Conducted by the Ontario Cereal Crop Committee

Current as of August 25, 2017 (version 1)

Ontario Winter Wheat Performance Trials

This report has been prepared by the Ontario Cereal Crop Committee and contains the most recent varietal information on winter wheat that was planted in 2016 and harvested in 2017

ADDITIONAL INFORMATION

Additional information is available at www.gocereals.ca, including

- Map with area and individual locations
- Head to Head comparisons which give multi-year data
- Historical Performance reports

For more information contact:

Ellen Sparry
Trial Coordinator
C&M Seeds
519-343-2126
esparry@redwheat.com












2017

Ontario Winter Wheat Performance Trials

Conducted by the Ontario Cereal Crop Committee ♦ www.gocereals.ca

Table #	Table	Page #
1	Cumulative Yield Index Summary - Area I & II combined	4
1a	Cumulative Yield Index Summary - Area I & II combined, INTENSIVE	5
2	Cumulative Yield Index Summary - Area I	6
2a	Cumulative Yield Index Summary - Area I INTENSIVE	7
3	Cumulative Yield Index Summary - Area II	8
3a	Cumulative Yield Index Summary - Area II INTENSIVE	9
4	Cumulative Yield Index Summary - Area III	10
4a	Cumulative Yield Index Summary - Area III INTENSIVE	11
5a	Varietal Characteristics - Area I	12
5b	Varietal Characteristics - Area II	13
5c	Varietal Characteristics - Area III	14
6	Cumulative Yield Index Summary - Area V	15
6a	Cumulative Yield Index Summary - Area V INTENSIVE	16
6b	Varietal Characteristics - Area V	17
7a	Ontario Winter Wheat Distributors	18
7b	Distributor Contact Information	19

Table 1 - Ontario Winter Wheat Performance Trial; Cumulative Yield Summary for Area I & II Combined², OCCC, August 2017


Class ³	Variety	5 year	4 year	3 year	2 year	2017
sww	25W31 (awned) 			95 ⁴	92	89
	Ava					103
srw	Emmit	96	92	90	88	86
	Branson	108	107	109	110	112
	Wave	99	96	96	95	91
	CM614	104	104	105	105	104
	WB425 (awned) 	103	103	103	103	102
	CM249 (awned)	104	103	103	104	101
	25R34 (awned)	109	108	108	110	109
	25R40 (awned)	111	111	112	114	115
	HY 412-SRW 	101	101	101	100	101
	Emperor 	99	97	96	94	90
	OAC Flight (awned) 	92	89	85	81	81
	Marker	105	105	105	106	105
	UGRC Ring (awned)	105	106	106	108	106
	25R46 (awned)		89	86	83	82
	Cruze (awned)			103	104	99
	DS572SRW 			101	100	98
	Drew (awned)				91	88
DS654SRW 				111	112	
DS743SRW 				109	110	
25R61 (awned) 					93	
25R74 (awned) 					112	
hrw	AC Morley	96	95	95	93	99
	AC Sampson	92	91	90	87	85
	Princeton	99	99	99	101	101
	Priesley	105	106	106	109	106
	Gallus (awned) 	102	102	103	105	104
	JDC78 (awned)				104	102
Means (t/ha)		5.86	6.05	6.00	6.18	5.72
Means (bu/ac)		87	90	89	92	85
Location-years		30	23	19	14	7

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.










² Area I and II combined: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 1a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive trials
Summary for Area I & II Combined², OCCC, August 2017**

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2017 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava									95 ⁴	106
	25W31 (awned) 					91	105	88	103	84	106
srw	Emmit	91	106	89	104	86	106	84	105	80	107
	Branson	102	109	102	109	103	109	103	109	104	111
	Wave	94	103	92	101	91	102	90	102	84	103
	CM614	99	108	99	106	99	107	98	107	96	109
	WB425 (awned) 	98	104	97	104	96	104	96	103	93	104
	CM249 (awned)	99	109	98	107	97	109	98	110	94	111
	25R34 (awned)	103	112	102	110	101	109	102	108	101	110
	25R40 (awned)	105	113	105	112	105	112	106	112	107	117
	HY 412-SRW 	96	105	95	104	95	104	94	102	92	104
	Emperor 	94	106	92	106	91	106	90	106	83	107
	OAC Flight (awned) 	90	107	88	106	84	105	82	107	79	111
	Marker	99	109	101	109	100	109	101	109	98	111
	UGRC Ring (awned)	100	111	100	111	100	111	102	111	98	113
	25R46 (awned)					83	106	80	107	76	110
	Cruze (awned)					97	107	97	108	93	109
	DS572SRW 					96	112	95	114	92	116
	Drew (awned)							87	106	81	109
DS654SRW 							105	111	105	113	
DS743SRW 							102	108	102	110	
25R61 (awned)									87	110	
25R74 (awned)									104	111	
hrw	AC Morley	93	101	92	99	92	99	90	96	92	101
	AC Sampson	87	96	87	95	85	95	83	95	78	94
	Princeton	93	103	93	102	92	101	94	102	94	104
	Priesley	99	105	100	105	99	105	100	106	98	107
	Gallus (awned) 	95	101	96	100	96	101	98	102	94	100
	JDC78 (awned)							98	107	95	109
Means (t/ha)	5.65	6.30	5.85	6.50	5.74	6.45	5.99	6.71	5.59	6.53	
Means (bu/ac)	84	94	87	97	85	96	89	100	83	97	
Location-years		25		19		15		11		6	

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.


² Area I and II combined: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.












⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC thanks the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the intensive trials.

 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 2 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area I², OCCC, August 2017**


Class ³	Variety	5 year	4 year	3 year	2 year	2017
sww	25W31 (awned) 			101 ⁴	99	101
	Ava					98
	E0028W					96
srw	Emmit	97	95	93	91	94
	Branson	103	103	104	104	102
	Wave	99	97	96	97	100
	CM614	104	103	104	103	105
	WB425 (awned) 	100	101	102	101	98
	CM249 (awned)	105	104	104	104	104
	25R34 (awned)	108	107	107	108	103
	25R40 (awned)	110	111	111	114	110
	HY 412-SRW 	100	98	98	98	98
	Emperor 	98	98	97	97	97
	OAC Flight (awned) 	96	95	91	87	96
	Marker	103	104	103	105	103
	UGRC Ring (awned)	105	106	106	107	104
	25R46 (awned)		96	93	90	92
	Cruze (awned)			107	108	104
	DS572SRW 			102	102	107
	Drew (awned)				96	95
	DS654SRW 				108	103
	DS743SRW 				106	104
	25R61 (awned) 					98
25R74 (awned) 					104	
hrw	AC Morley	95	94	93	90	96
	AC Sampson	91	90	88	87	86
	Princeton	99	97	97	97	100
	Priesley	103	103	104	106	100
	Gallus (awned) 	98	98	99	100	96
	JDC78 (awned)				109	105
Means (t/ha)		6.00	6.19	6.08	6.24	6.25
Means (bu/ac)		89	92	91	93	93
Location-Years		13	10	8	6	3

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.












² Area I : see map of areas on www.gocereals.ca website

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 2a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive trials
Summary for Area I², OCCC, August 2017**

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2017 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava									94 ⁴	100
	E0028W									91	106
	25W31 (awned) 					99	106	97	102	98	103
srw	Emmit	94	103	91	102	89	102	89	102	90	102
	Branson	99	105	99	105	100	106	100	104	99	104
	Wave	96	102	94	100	94	100	95	100	96	103
	CM614	100	107	99	105	100	106	99	104	101	106
	WB425 (awned) 	95	103	96	104	96	104	95	100	94	100
	CM249 (awned)	102	107	100	106	100	106	101	106	101	106
	25R34 (awned)	104	111	102	109	102	109	103	106	100	105
	25R40 (awned)	106	112	106	111	106	110	108	110	107	110
	HY 412-SRW 	96	103	94	100	93	100	94	101	95	102
	Emperor 	94	104	94	104	93	105	94	105	94	106
	OAC Flight (awned) 	94	107	93	106	89	104	86	103	92	108
	Marker	100	106	100	107	99	108	103	107	101	107
	UGRC Ring (awned)	101	109	101	109	101	109	103	108	101	109
	25R46 (awned)			94	107	91	106	89	106	89	105
	Cruze (awned)					101	107	103	108	101	106
	DS572SRW 					99	111	99	109	102	110
	Drew (awned)							93	107	91	105
DS654SRW 							103	105	100	103	
DS743SRW 							101	105	100	104	
25R61 (awned) 									95	108	
25R74 (awned) 									101	106	
hrw	AC Morley	93	99	91	97	92	98	89	93	92	96
	AC Sampson	87	95	87	95	85	94	85	95	83	94
	Princeton	95	100	93	99	92	99	93	97	97	100
	Priesley	99	103	99	102	100	102	102	102	96	98
	Gallus (awned) 	94	99	94	99	94	99	96	99	93	95
	JDC78 (awned)							104	109	102	106
Means (t/ha)	5.87	6.41	6.03	6.57	5.86	6.43	5.99	6.47	6.25	6.80	
Means (bu/ac)	87	95	90	98	87	96	89	96	93	101	
Location-Years	12		9		7		5		3		

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area I: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.













Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC thanks the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the intensive trials.



PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 3 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area II², OCCC, August 2017**


Class ³	Variety	5 year	4 year	3 year	2 year	2017
sww	Ava	105 ⁴	106	106	106	106
	25W31 (awned) 			91	86	81
srw	Emmit	95	91	89	86	80
	Branson	111	111	112	114	119
	Wave	99	96	95	94	85
	CM614	104	105	105	106	103
	WB425 (awned) 	106	104	104	106	105
	CM249 (awned)	103	102	102	104	99
	25R34 (awned)	110	109	109	111	113
	25R40 (awned)	111	111	113	114	119
	HY 412-SRW 	103	103	104	101	103
	Emperor 	99	95	94	92	85
	OAC Flight (awned) 	89	84	82	77	71
	Marker	106	107	106	107	106
	UGRC Ring (awned)	105	106	106	109	107
	25R46 (awned)		82	82	78	73
	Cruze (awned)			100	101	95
	DS572SRW 			99	98	92
	Drew (awned)				87	83
	DS654SRW 				114	120
	DS743SRW 				112	116
	25R61 (awned) 					90
25R74 (awned) 					118	
hrw	AC Morley	97	96	96	96	101
	AC Sampson	92	92	91	87	84
	Princeton	99	100	101	105	102
	Priesley	107	109	107	111	112
	Gallus (awned) 	104	105	105	109	109
	HY 301-HRW 	100	101	100	103	103
	JDC78 (awned)				101	100
Means (t/ha)		5.76	5.94	5.94	6.14	5.34
Means (bu/ac)		86	88	88	91	79
Location-Years		17	13	11	8	4

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.













² Area II : see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 3a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive Trials
Summary for Area II², OCCC, August 2017**

Class ³	Variety	5-Year Index Fungicides		4-Year Index Fungicides		3-Year Index Fungicides		2-Year Index Fungicides		2017 Index Fungicides	
		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
sww	Ava	99 ⁴	109	101	109	100	109	98	108	95	111
	25W31 (awned) 					85	104	80	104	70	109
srw	Emmit	89	108	86	107	83	108	80	108	70	113
	Branson	104	113	105	113	106	113	106	112	108	119
	Wave	92	103	90	101	88	103	86	104	72	102
	CM614	97	108	99	107	98	109	97	110	92	112
	WB425 (awned) 	100	106	98	104	96	104	96	106	92	108
	CM249 (awned)	96	110	95	109	95	111	96	113	88	116
	25R34 (awned)	103	112	102	110	101	109	102	111	101	115
	25R40 (awned)	104	114	104	113	105	114	105	114	107	124
	HY 412-SRW 	96	107	96	106	97	107	93	104	90	106
	Emperor 	94	108	91	107	89	107	86	106	72	107
	OAC Flight (awned) 	87	107	84	106	81	106	78	110	66	114
	Marker	99	112	101	112	100	110	98	111	95	116
	UGRC Ring (awned)	98	113	100	112	100	112	101	114	95	116
	25R46 (awned)					77	106	73	109	62	114
	Cruze (awned)					93	107	93	108	84	112
	DS572SRW 					94	114	93	117	81	122
	Drew (awned)							82	106	71	112
DS654SRW 							107	116	110	123	
DS743SRW 							102	109	104	117	
25R61 (awned) 									80	112	
25R74 (awned) 									107	117	
hrw	AC Morley	92	103	92	101	92	101	91	99	92	107
	AC Sampson	87	97	88	96	86	96	81	95	74	95
	Princeton	92	106	93	105	92	104	96	107	92	107
	Priesley	99	107	101	108	98	107	99	109	100	116
	Gallus (awned) 	97	102	97	101	97	103	99	104	95	105
	HY 301-HRW 	94	97	95	97	93	98	96	100	93	101
	JDC78 (awned)							92	106	88	113
Means (t/ha)	5.45	6.21	5.70	6.43	5.64	6.46	6.00	6.90	4.94	6.27	
Means (bu/ac)	81	92	85	96	84	96	89	103	74	93	
Location-Years		13		10		8		6		3	

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area II: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.













Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC thanks the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the intensive trials.



PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

Table 4 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for Area III², OCCC, August 2017

Class ³	Variety	5 year ⁴	4 year	3 year	2 year	2017
sww	Ava	102 ⁴	101	101	99	94
	25W31 (awned) 					96
srw	Emmit	102	101	102	104	98
	Branson	104	104	104	107	111
	CM614	106	105	105	104	94
	WB425 (awned) 	99	98	98	94	101
	CM249 (awned)	103	102	102	102	102
	HY 412-SRW 	103	101	102	101	99
	Emperor 	96	96	95	96	96
	OAC Flight (awned) 	95	96	96	95	98
	Marker	103	104	104	105	103
	UGRC Ring (awned)	107	107	108	109	106
	Cruze (awned)			99	99	107
	DS572SRW 			104	106	101
	Drew (awned)				99	100
	DS654SRW 				106	112
	DS743SRW 				105	103
	25R34 (awned)					97
	25R40 (awned)					107
	25R46 (awned)					100
	25R61 (awned) 					102
	25R74 (awned) 					109
hrw	AC Morley	96	95	95	95	89
	AC Sampson	93	92	90	88	85
	Princeton	94	96	95	96	89
	Priesley	101	101	99	96	96
	Gallus (awned) 	99	98	97	101	104
	HY 301-HRW 	93	94	95	94	100
	JDC78 (awned)				96	104
Means (t/ha)		5.44	5.25	5.22	5.58	6.84
Means (bu/ac)		81	78	78	83	102
Location-Years		10	9	7	4	2

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area III : see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.














 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

Table 4a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹, Intensive Trials Summary for Area III², OCCC, August 2017

Class ³	Variety	2017 Index Fungicides	
		No	Yes
sww	Ava	87 ⁴	102
	25W31 (awned) 	98	101
srw	Emmit	105	113
	Branson	106	112
	CM614	76	91
	WB425 (awned) 	97	118
	CM249 (awned)	95	102
	25R34 (awned)	92	106
	25R40 (awned)	99	112
	HY 412-SRW 	96	104
	Emperor 	97	104
	OAC Flight (awned) 	101	103
	Marker	105	109
	UGRC Ring (awned)	102	111
	25R46 (awned)	104	110
	Cruze (awned)	108	108
	DS572SRW 	108	104
	Drew (awned)	98	103
	DS654SRW 	103	112
DS743SRW 	93	106	
25R61 (awned) 	105	113	
25R74 (awned) 	109	104	
hrw	AC Morley	89	88
	AC Sampson	81	102
	Princeton	84	108
	Priesley	88	100
	Gallus (awned) 	99	103
	HY 301-HRW 	92	95
	JDC78 (awned)	97	104
Means (t/ha)	6.74	7.28	
Means (bu/ac)	100	108	
Location-Years	1		

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.


² Area II: see map of areas on www.gocereals.ca website.

³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.












⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC thanks the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the intensive trials.

 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 5a - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area I
OCCC, August 2017**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Height (cm)	Heading Date ³ (JD)	Leaf Rust (0-9) ²	Leaf Septoria (0-9) ²	Stripe Rust (0-9) ²
	Combined Fusarium Rating ¹	Don Rating ¹	Years								
Ava	MR	MR	8	75.0	9.7	34.9	101	150	2.3	2.1	0.5
E0028W	HS	HS	6	72.6	10.4	39.5	89	146	3.0	2.3	5.0
25W31 	S	S	2	76.3	10.7	32.4	93	148	1.7	2.1	2.8
Emmit	MS	MS	8	73.4	10.3	34.2	92	148	2.3	2.4	4.4
Branson	S	MS	8	74.5	10.7	36.1	88	145	2.3	2.1	0.9
Wave	S	MS	8	75.8	10.7	33.3	100	146	2.3	2.8	3.2
CM614	MS	MS	7	77.3	10.2	37.4	99	146	1.7	2.5	1.3
WB425 	MS	MR	6	76.0	10.2	32.6	90	145	4.3	1.7	0.0
CM249	S	MS	6	74.9	10.4	37.3	98	147	2.3	2.7	1.1
25R34	MR	MR	5	74.5	9.8	38.4	89	147	2.3	2.3	0.5
25R40	HS	S	5	75.9	10.3	38.4	85	146	4.0	2.0	0.7
HY 412-SRW 	MS	S	5	78.0	10.4	36.4	95	152	1.3	3.0	1.3
Emperor 	MS	MR	5	74.6	10.5	35.0	99	145	2.3	2.2	4.5
OAC Flight 	S	S	6	73.6	10.0	32.6	92	147	2.3	2.3	5.1
Marker	MR	MR	4	72.9	9.8	30.8	97	147	2.0	1.9	1.5
UGRC Ring	MS	MS	4	74.2	10.0	37.4	95	146	2.3	2.5	1.2
25R46	MS	MS	3	74.3	10.5	32.1	85	147	1.7	1.8	6.7
Cruze	MS	MR	2	77.1	10.3	35.5	89	146	2.3	3.1	2.6
DS572SRW 	S	HS	2	76.6	9.9	41.1	105	148	2.3	2.0	2.3
Drew	MS	MR	1	74.5	10.7	31.7	90	145	1.7	2.4	4.4
DS654SRW 	S	S	1	74.4	9.5	36.0	97	147	1.0	2.5	0.5
DS743SRW 	MR	MR	1	78.1	10.1	35.8	99	148	1.3	1.9	0.1
25R61 	--	--	--	72.2	10.7	31.5	89	145	3.0	2.5	3.5
25R74 	--	--	--	74.8	10.6	31.7	81	145	2.7	2.0	0.6
AC Morley	MR	MR	8	77.9	11.3	34.5	119	148	1.3	1.9	2.1
AC Sampson	S	S	8	74.7	10.6	35.3	96	150	4.7	2.5	2.3
Princeton	S	S	8	78.2	10.8	44.3	105	148	1.3	2.4	1.4
Priesley	S	MS	7	75.1	11.1	38.5	84	148	2.0	2.0	0.1
Gallus 	MS	S	6	77.4	11.0	43.2	93	147	1.7	1.6	0.0
JDC78	S	S	1	73.9	11.1	36.5	87	147	4.7	1.6	1.2
Means				75.3	10.4	35.8	94	147	2.4	2.2	2.1
Locations				3	3	3	3	2	1	3	2

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.


1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on DON levels from inoculated provincial trials.

MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).

2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 5b - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area II
OCCC, August 2017**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Height (cm)	Heading Date ³ (JD)	Powdery Mildew (0-9) ²	Leaf Septoria (0-9) ²	Stripe Rust (0-9) ²
	Combined Fusarium Rating ¹	Don Rating ¹	Years								
Ava	MR	MR	8	73.1	9.1	36.7	100	159	2.6	2.4	2.3
25W31	S	S	2	73.6	10.1	29.1	90	158	4.4	1.9	3.4
Emmit	MS	MS	8	73.6	9.6	34.2	91	159	3.3	2.5	5.8
Branson	S	MS	8	75.2	9.2	38.5	89	155	2.7	1.5	0.8
Wave	S	MS	8	74.7	10.6	33.5	96	157	3.4	3.0	4.5
CM614	MS	MS	7	75.1	10.1	38.4	96	157	2.6	1.9	2.8
WB425	MS	MR	6	75.1	9.0	34.7	90	157	1.0	1.6	2.0
CM249	S	MS	6	73.4	9.6	38.2	95	157	3.3	3.0	4.0
25R34	MR	MR	5	74.5	9.5	40.2	90	157	4.6	2.3	1.1
25R40	HS	S	5	74.9	9.0	41.2	84	157	1.4	1.9	0.9
HY 412-SRW	MS	S	5	75.6	9.8	36.5	93	161	2.4	2.2	2.9
Emperor	MS	MR	5	71.4	10.2	34.7	97	156	4.1	3.4	5.8
OAC Flight	S	S	6	70.4	9.9	32.5	94	158	3.0	2.5	6.3
Marker	MR	MR	4	74.3	9.4	33.8	94	158	3.8	1.9	2.4
UGRC Ring	MS	MS	4	72.7	9.0	39.8	97	157	3.1	2.2	2.6
25R46	MS	MS	3	70.4	9.4	32.2	84	157	3.3	2.1	6.4
Cruze	MS	MR	2	75.1	10.0	38.7	89	156	3.3	1.9	3.2
DS572SRW	S	HS	2	74.7	9.1	42.5	105	157	1.4	2.2	4.5
Drew	MS	MR	1	70.7	10.2	29.5	86	156	2.3	2.4	4.9
DS654SRW	S	S	1	75.5	8.5	41.7	98	157	4.3	2.3	1.0
DS743SRW	MR	MR	1	77.4	9.4	38.9	99	158	3.8	1.9	1.8
25R61	--	--	--	72.5	9.6	34.1	93	157	3.9	2.2	3.7
25R74	--	--	--	73.3	9.5	34.1	80	156	2.1	1.1	0.5
AC Morley	MR	MR	8	77.4	10.5	38.2	116	159	2.1	1.9	3.2
AC Sampson	S	S	8	72.8	10.7	38.0	99	162	2.4	2.8	4.3
Princeton	S	S	8	77.3	10.2	45.9	102	158	4.8	2.5	1.6
Priesley	S	MS	7	74.2	9.6	41.6	85	158	0.7	1.8	0.6
Gallus	MS	S	6	77.5	10.4	47.2	95	157	2.6	1.4	0.6
HY 301-HRW	MS	MS	5	77.3	10.9	35.9	93	158	1.1	3.6	1.4
JDC78	S	S	1	72.5	10.5	39.9	86	158	5.1	2.3	1.2
Means				74.2	9.8	37.3	93	157	3.0	2.2	2.9
Locations				4	2	4	4	4	3	3	4

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.


1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on DON levels from inoculated provincial trials.

MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).

2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 5c - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from Area III
OCCC, August 2017**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Winter Survival (%)	Height (cm)	Heading Date ³ (JD)	Leaf Rust (0-9) ²	Leaf Septoria (0-9) ²	Straw Yield Index
	Combined Fusarium Rating ¹	Don Rating ¹	Years									
Ava	MR	MR	8	75.0	10.6	33.0	96	98	161	3.0	2.0	86
25W31	S	S	2	74.0	11.7	26.9	93	87	158	2.3	3.5	102
Emmit	MS	MS	8	73.3	11.1	33.4	97	95	159	2.6	4.3	99
Branson	S	MS	8	75.2	10.7	35.6	98	86	155	1.3	2.9	88
CM614	MS	MS	7	75.6	13.1	35.5	97	91	160	0.9	3.0	79
WB425	MS	MR	6	76.7	10.4	29.7	98	90	157	5.3	2.5	66
CM249	S	MS	6	75.4	12.3	37.3	98	94	158	3.5	1.9	92
25R34	MR	MR	5	73.3	11.4	33.0	97	89	159	2.8	3.0	129
25R40	HS	S	5	73.8	10.4	37.6	97	78	159	3.5	2.3	87
HY 412-SRW	MS	S	5	75.1	10.2	34.7	97	93	162	1.6	3.8	112
Emperor	MS	MR	5	75.3	10.9	32.6	97	98	158	0.6	4.8	104
OAC Flight	S	S	6	74.3	10.7	32.4	95	89	158	3.5	5.5	89
Marker	MR	MR	4	73.4	9.9	30.7	96	91	159	2.8	3.3	135
UGRC Ring	MS	MS	4	73.9	10.1	36.4	96	95	158	4.0	3.8	95
25R46	MS	MS	3	73.4	9.9	31.4	96	83	158	4.3	5.7	77
Cruze	MS	MR	2	76.6	12.9	35.0	98	88	157	0.9	4.5	102
DS572SRW	S	HS	2	75.5	10.5	41.1	98	99	158	5.8	2.3	115
Drew	MS	MR	1	74.4	13.1	30.5	97	86	157	4.3	3.8	93
DS654SRW	S	S	1	75.9	10.2	38.0	98	95	159	0.8	1.3	109
DS743SRW	MR	MR	1	78.6	11.4	37.0	97	94	160	1.5	2.8	114
25R61	--	--	--	73.4	11.1	30.8	97	92	159	3.5	3.8	102
25R74	--	--	--	74.1	11.1	29.9	98	81	156	2.8	2.0	107
AC Morley	MR	MR	8	75.7	12.2	34.1	97	109	160	4.7	3.3	143
AC Sampson	S	S	8	72.9	12.5	35.0	97	99	162	5.0	3.3	79
Princeton	S	S	8	75.7	11.6	39.7	91	98	161	1.0	3.8	79
Priesley	S	MS	7	73.3	12.8	37.4	96	82	160	1.1	2.3	66
Gallus	MS	S	6	76.6	14.2	41.8	98	92	159	2.6	2.3	124
HY 301-HRW	MS	MS	5	76.1	12.6	32.4	98	90	159	0.4	3.8	117
JDC78	S	S	1	72.6	13.2	37.2	97	87	159	1.9	2.0	110
Means				74.8	11.5	34.5	97	91	159	2.7	3.2	2.84 t/ha
Locations				2	1	2	2	2	1	1	1	1

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.


1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on DON levels from inoculated provincial trials.







MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).

2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 6 - Ontario Winter Wheat Performance Trial; Cumulative Yield Index¹
Summary for AreaV², OCCC, August 2017⁵**

Class ³	Variety	3 year	2 year	1 Year
sww	Ava	104 ⁴	105	98
srw	CM614	97	98	98
	HY 412-SRW 	107	109	114
	UGRC C2-5		98	102
	DS572SRW 		105	98
	DS654SRW 			96
	DS743SRW 			99
	Curtis 			102
hrw	Princeton	95	94	93
	Priesley	105	102	104
	Gallus (awned) 	90	88	86
Means (t/ha)		7.99	7.99	7.52
Means (bu/ac)		119	119	112
Location-Years		4	3	1


¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area V : see map of areas on www.gocereals.ca/variety_trial.php.







³ sww = soft white winter, srw = soft red winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.

⁵ Data for 2016 presented as 2017 trial did not survive.

 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 6a - Ontario Winter Wheat Performance Trial - Cumulative Yield Indices¹,
Intensive Trials Summary for Area V², OCCC, August 2017⁵**

Class ³	Variety	3-Year Index Fungicides		2-Year Index Fungicides		1-Year Index Fungicides	
		No	Yes	No	Yes	No	Yes
sww	Ava	104 ⁴	101	99	95	99	92
srw	CM614	97	99	95	97	99	99
	HY 412-SRW 	106	107	108	109	114	114
	UGRC C2-5					103	103
	DS572SRW 					99	96
	DS654SRW 					97	101
	DS743SRW 					99	97
	Curtis 					103	101
hrw	Princeton	98	99	95	98	94	94
	Priesley	104	103	107	106	105	99
	Gallus (awned) 	94	93	92	92	87	86
Means (t/ha)		7.35	7.40	7.77	7.84	7.52	7.37
Means (bu/ac)		109	110	116	117	112	110
Location-Years		3		2		1	

¹ Values differing by less than 3 within a column may not represent true differences in yield. Yield Indices are Heritability Adjusted Relative Values (HARV), which favour results from trial locations with high repeatability. For more information, see: Yan, W. Use of HARV in Variety Trial Summaries.

² Area V: see map of areas on www.gocereals.ca/variety_trial.php.


³ sww = soft white winter, srw = soft red winter, hww = hard white winter, hrw = hard red winter.

⁴ Cultivar yield rankings may vary from year to year. Decisions are therefore best made using data with the greatest number of years.







⁵ Data for 2016 presented as 2017 trial did not survive.

Fungicide treatments included a T1 application of foliar fungicide at Zadoks Growth Stage 30 to 31, followed by a T3 application of fusarium fungicide during flowering.

The OCCC thanks the Grain Farmers of Ontario, BASF, Bayer and Syngenta for their financial support towards the intensive trials.

 PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

**Table 6b - Ontario Winter Wheat Performance Trials; Varietal Characteristics Based on Data from
Area V
OCCC, August 2017 ⁴**

Variety	Fusarium Data			Test Weight (kg/hL)	Protein (%)	1000 Kernel Weight (g)	Lodging (0-9) ²	Height (cm)	Heading Date ³ (JD)
	Combined Fusarium Rating ¹	Don Rating ¹	Years						
Ava	MR	MR	8	82.3	11.7	35.3	0.5	109	171
CM614	MS	MS	7	82.1	12.0	38.7	1.8	103	170
HY 412-SRW 	MS	S	5	82.2	11.9	35.9	0.0	97	171
UGRC C2-5	MR	MR	3	79.3	11.5	39.5	0.3	106	170
DS572SRW 	S	HS	2	82.2	12.0	44.7	2.8	108	168
DS654SRW 	S	S	1	80.5	11.4	37.3	0.8	101	169
DS743SRW 	MR	MR	1	81.9	12.9	35.2	4.0	106	170
Curtis 	MS	MR	1	82.3	12.2	39.5	2.5	102	168
Princeton	S	S	8	82.8	12.9	45.2	0.0	106	170
Priesley	S	MS	7	82.2	12.4	42.5	0.0	92	173
Gallus 	MS	S	6	83.5	13.9	44.6	0.0	97	168
Means				81.9	12.2	39.9	1.1	102	170
Locations				1	1	1	1	1	1

For traits not reported on this table see other area trait tables or previous year's performance trials. Not all traits are expressed in any given year or area. Head to Head comparisons on GoCereals.ca website give multi-year data for trait characteristics.

1 Combined Fusarium Ratings are based on BOTH Fusarium head blight ratings and deoxynivalenol (DON) levels from inoculated provincial trials.

DON Ratings are based only on DON levels from inoculated provincial trials.

MR=moderately resistant (best); MS=moderately susceptible; S=susceptible; HS=highly susceptible (worst).

2 For ratings 0-9, a high score is undesirable.

3 Heading may vary from year to year and should only be used to indicate relative differences.

4 Data for 2016 presented as 2017 trial did not survive.














 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

Table 7a - Ontario Winter Wheat Distributors

Class ³	Variety	Distributor
sww	Ava	Dow Seeds
	E0028W	SeCan Association
	25W31 (awned) 	Pioneer Hi-Bred
srw	Emmit	Dow Seeds
	Branson	Dow Seeds
	Wave	SeCan Association
	CM614	C & M Seeds
	WB425 (awned) 	C & M Seeds
	CM249 (awned)	C & M Seeds
	25R34 (awned)	Pioneer Hi-Bred
	25R40 (awned)	Pioneer Hi-Bred
	HY 412-SRW 	Dow Seeds
	Emperor 	SeCan Association
	OAC Flight (awned) 	Elite Seeds
	Marker	Bramhill Seeds
	UGRC Ring (awned)	Elite Seeds
	25R46 (awned)	Pioneer Hi-Bred
	Cruze (awned)	C & M Seeds
	DS572SRW 	Dow Seeds
Drew (awned)	C & M Seeds	
DS654SRW 	Dow Seeds	
DS743SRW 	Dow Seeds	
25R61 (awned) 	Pioneer Hi-Bred	
25R74 (awned) 	Pioneer Hi-Bred	
hrw	AC Morley	Advantage Seed Growers
	AC Sampson	Bramhill Seeds
	Princeton	C & M Seeds
	Priesley	C & M Seeds
	Gallus (awned) 	C & M Seeds
	HY 301-HRW 	Dow Seeds
JDC78 (awned)	C & M Seeds	

¹ sww = soft white winter, srw = soft red winter, hrw = hard red winter.


 = PBR Status; indicates varieties protected under PBR 91. Visit pbrfacts.ca to learn more.

Table 7b - Ontario Winter Wheat Distributor/Sponsor Contact Information

Distributor	Address
Advantage Seed Growers	P.O. Box 351, Lucknow, ON, N0G 2H0 Tel: 519-440-6406 Fax: 519-812-1010 Internet: www.advantageseeds.com
Bramhill Seeds	5220 Hwy 23, RR#2, Palmerston, ON, N0G 2P0 Tel: 519-343-3630 Fax: 519-343-2037 Internet: www.bramhillseeds.com
C&M Seeds	6180 5th Line, Palmerston, ON, N0G 2P0 Tel: 1-888-733-9432 Fax: 519-343-3792 Internet: www.redwheat.com
Dow Seeds	P.O. Box 1090, 5 Hyland Drive Blenheim, ON, N0P 1A0 Tel: 519-676-8146 Fax: 519-676-6800 Internet: www.dowseeds.com
Elite Seeds	Available through your local Agromart Tel: 519-282-6701 Internet: www.eliteseeds.ca
Pioneer Hi-Bred	Box 730, 7398 Queen's Line, Chatham, ON, N7M 5L1 Tel: 1-800-265-9435 Internet: www.pioneer.com
SeCan Association	400-300 Terry Fox Drive, Kanata, ON, K2K 0E3 Tel: 1-866-797-7874 Fax: 613-592-9497 Internet: www.secan.com